

## SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2005/Aug W2  
(c) format only 2005 Dialog

File 2:INSPEC 1969-2005/Aug W1  
(c) 2005 Institution of Electrical Engineers

File 5:Biosis Previews(R) 1969-2005/Aug W2  
(c) 2005 BIOSIS

File 6:NTIS 1964-2005/Aug W1  
(c) 2005 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2005/Aug W1  
(c) 2005 Elsevier Eng. Info. Inc.

File 73:EMBASE 1974-2005/Aug 17  
(c) 2005 Elsevier Science B.V.

File 987:TULSA (Petroleum Abs) 1965-2005/Aug W2  
(c)2005 The University of Tulsa

File 94:JICST-EPlus 1985-2005/Jun W4  
(c)2005 Japan Science and Tech Corp(JST)

File 35:Dissertation Abs Online 1861-2005/Jul  
(c) 2005 ProQuest Info&Learning

File 144:Pascal 1973-2005/Aug W1  
(c) 2005 INIST/CNRS

File 105:AESIS 1851-2001/Jul  
(c) 2001 Australian Mineral Foundation Inc

\*File 105: This file is closed (no updates)

File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Jul  
(c) 2005 The HW Wilson Co.

File 58:GeoArchive 1974-2005/May  
(c) 2005 Geosystems

File 34:SciSearch(R) Cited Ref Sci 1990-2005/Aug W1  
(c) 2005 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info

File 292:GEOBASE(TM) 1980-2005/Jul B1  
(c) 2005 Elsevier Science Ltd.

File 89:GeoRef 1785-2005/Jul B2  
(c) 2005 American Geological Institute

\*File 89: Please see HELP ALERTALL for new Alert frequency and price. Please see HELP RATES 89 for new Academic Subscriber rates.

File 65:Inside Conferences 1993-2005/Aug W2  
(c) 2005 BLDSC all rts. reserv.

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200552  
(c) 2005 Thomson Derwent

\*File 350: For more current information, include File 331 in your search. Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2005/Apr(Updated 050801)  
(c) 2005 JPO & JAPIO

Set	Items	Description
S1	10528	AU=(NISHIDA, S? OR NISHIDA S?)
S2	13	S1 AND (ION(2N)((CONDUCT? OR ELECTROCONDUCTIV? OR ELECTRO(- )CONDUCTIV?) OR ROLL OR ROLLS OR ROLLER? ?))
S3	2	S2 AND (ROLLER? ? OR ROLL OR ROLLS)
S4	2	RD (unique items)
S5	11	S2 NOT S3
S6	0	S5 AND IMAG?(2N)FORM?
S7	7	RD S5 (unique items)
S8	10515	S1 NOT S2
S9	178	S8 AND IMAG?(2N)FORM?
S10	3	S9 AND (ELASTIC? OR FLEXIB? OR STRETCH? OR REBOUND?) (2N) (L- AYER??? OR FILM??? OR COAT??? OR MULTILAYER??? OR MULTI()LAYER- R????? OR SPACER??? OR INTERLAYER????? OR INTER()LAYER????? OR MULTIPLE()LAYER? ?)
S11	3	RD (unique items)
S12	175	S9 NOT S10
S13	0	S12 AND (((ASKER()C) OR ASKER) (2N)HARDNESS OR ASKER()C)
S14	51759	ION(2N)((CONDUCT? OR ELECTROCONDUCTIV? OR ELECTRO()CONDUCT- IV?) OR ROLL OR ROLLS OR ROLLER? ?)
S15	59158	ELECTROCONDUCTIV? OR ELECTRO()CONDUCTIV?
S16	1060272	ROLLER? ? OR ROLL OR ROLLS
S17	413821	IMAG?(2N)FORM?
S18	276506	(MOVE? OR MOVABLE OR MOVING OR MOTION?) (2N) (MEMBER? ? OR P- ART?)
S19	108190	(ELASTIC? OR FLEXIB? OR STRETCH? OR REBOUND?) (2N) (LAYER??? OR FILM??? OR COAT??? OR MULTILAYER??? OR MULTI()LAYER????? OR SPACER??? OR INTERLAYER????? OR INTER()LAYER????? OR MULTIPLE- ( )LAYER? ?)
S20	336868	HARDNESS
S21	675	((ASKER()C) OR ASKER) (2N)HARDNESS OR ASKER()C
S22	151034	IC=(G03G-015/00 OR G03G-015/02 OR G03G-015/16)
S23	796	S14 AND S15
S24	94	S23 AND S16
S25	61	S24 AND S17
S26	0	S25 AND S18
S27	19	S25 AND S19
S28	9	S27 AND S20
S29	9	RD (unique items)
S30	10	S27 NOT S28
S31	0	S30 AND S21
S32	10	RD S30 (unique items)
S33	42	S25 NOT S27
S34	5	S33 AND S20
S35	5	RD (unique items)
S36	42	S33 NOT S19
S37	3	S36 AND S21
S38	3	RD (unique items)
S39	39	S36 NOT S37
S40	35	S39 AND S22
S41	35	RD (unique items)
S42	35	S41 AND S14
S43	35	S42 AND S16

## Query/Command : HIS

File : PLUSPAT

## SS Results

1	3	(1) ..FAM US20040228659/PN
2	1	..CITF US20040228659/PN
3	1	..CITB US20040228659/PN

Search statement 4

## Query/Command : PRT MAX IMG SET


---

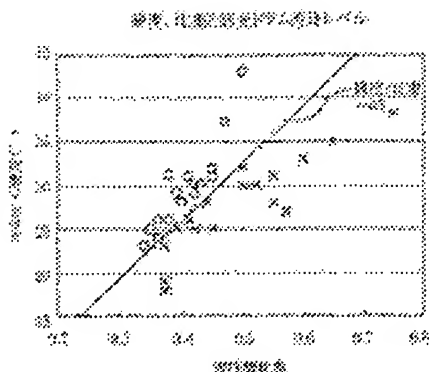
1 / 3 PLUSPAT - ©QUESTEL-ORBIT

PN - CN1532642 A 20040929 [CN1532642]  
TI - (A) Ion conductive roller and image forming device using ion conductive roller  
PA - (A) CANON KK (JP)  
IN - (A) SATOSHI NISHIDA (JP)  
AP - CN200410030930 20040326 [2004CN-0030930]  
PR - JP2004067444 20040310 [2004JP-0067444]  
JP2003084975 20030326 [2003JP-0084975]  
IC - (A) G03G-015/00  
STG - (A) Unexamined application  
UP - 2005-13

---


2 / 3 PLUSPAT - ©QUESTEL-ORBIT - image

PN -  JP2004310064 A 20041104 [JP2004310064]  
TI - (A) ROLL MEMBER AND IMAGE FORMING APPARATUS  
PA - (A) CANON KK  
IN - (A) NISHIDA SATOSHI  
AP - JP2004067444 20040310 [2004JP-0067444]  
PR - JP2004067444 20040310 [2004JP-0067444]  
JP2003084975 20030326 [2003JP-0084975]  
IC - (A) G03G-015/00 G03G-015/02 G03G-015/16  
STG - (A) Doc. Laid open to publ. Inspec.  
AB - PROBLEM TO BE SOLVED: To provide an ion conductive roll member in which leaking out of components contained inside is prevented regardless of a barrier layer on a surface layer and friction coefficient on the surface is not varied due to friction by duration of use.  
SOLUTION: A spongelike medium resistance elastic layer 5b is formed on core metal 5a in the transfer roll 5 and the elastic layer 5b is provided with value of "hardness/specific gravity" which is 65 or more.  
COPYRIGHT: (C)2005,JPO&NCIPI  
UP - 2004-50  
IMG - (C) JPO




---

3 / 3 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** -  US2004228659 A1 20041118 [US20040228659]  
**TI** - (A1) Ion conductive roller and image forming apparatus employing ion conductive roller  
**IN** - (A1) NISHIDA SATOSHI (JP)  
**AP** - US80710504 20040324 [2004US-0807105]  
**PR** - JP2003084975 20030326 [2003JP-0084975]  
           JP2004067444 20040310 [2004JP-0067444]  
**IC** - (A1) G03G-015/02 G03G-015/16  
**EC** - G03G-015/02A1D  
**PCL** - ORIGINAL (O) : 399176000; CROSS-REFERENCE (X) : 399313000  
**DT** - Basic  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**AB** - An image forming apparatus includes a movable member; a roller contacted to the movable member, the roller having an elastic layer contacted to the movable member, the elastic layer having an ion electroconductivity and having a hardness of not less than 20 deg. and not more than 50 deg., wherein the hardness and a density of the elastic layer satisfy (hardness/density) $\geq$ 65, wherein the

hardness is an Asker-C hardness of a material of the elastic layer cut out into a thickness of 4.0 mm under a weight of 500 g applied to the material.

UP - 2004-47

IMG - Questel-Orbit

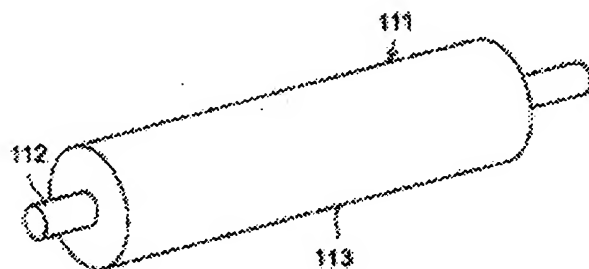


FIG. 1

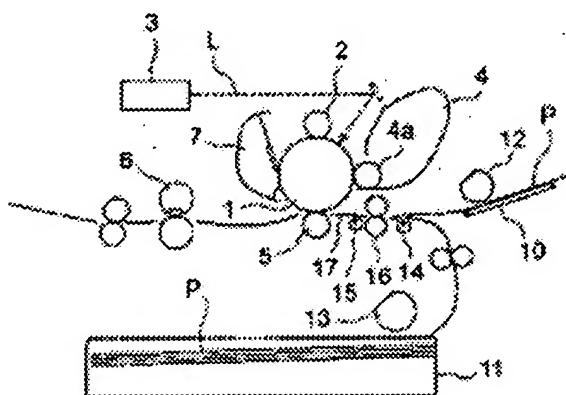


FIG. 2

Search statement 2

08/17/2005

10/807,105

(FILE 'HOME' ENTERED AT 11:42:07 ON 17 AUG 2005)

FILE 'JAPIO, INPADOC' ENTERED AT 11:42:22 ON 17 AUG 2005  
E JP2003-084975/AP,PRN

L1 4 S E4

08/17/2005

10/807,105

L1 ANSWER 1 OF 4 JAPIO (C) 2005 JPO on STN  
AN 2004-310064 JAPIO  
TI ROLL MEMBER AND IMAGE FORMING APPARATUS  
IN NISHIDA SATOSHI  
PA CANON INC  
PI JP 2004310064 A 20041104 Heisei  
AI JP 2004-67444 (JP2004067444 Heisei) 20040310  
PRAI JP 2003-8497520030326  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2004  
AB PROBLEM TO BE SOLVED: To provide an ion conductive roll member in which  
leaking out of components contained inside is prevented regardless of a  
barrier layer on a surface layer and friction coefficient on the surface  
is not varied due to friction by duration of use.  
SOLUTION: A spongelike medium resistance elastic layer 5b is formed on  
core metal 5a in the transfer roll 5 and the elastic layer 5b is provided  
with value of "hardness/specific gravity" which is 65 or more.  
COPYRIGHT: (C)2005, JPO&NCIPI  
AN 2004-310064 JAPIO  
TI ROLL MEMBER AND IMAGE FORMING APPARATUS  
IN NISHIDA SATOSHI  
CANON INC  
PI JP 2004310064 A 20041104 Heisei  
AI JP 2004-67444 (JP2004067444 Heisei) 20040310  
JP 2003-8497520030326  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2004  
IC ICM G03G015-00  
ICS G03G015-02; G03G015-16  
AB PROBLEM TO BE SOLVED: To provide an ion conductive roll member in which  
leaking out of components contained inside is prevented regardless of a  
barrier layer on a surface layer and friction coefficient on the surface  
is not varied due to friction by duration of use.  
SOLUTION: A spongelike medium resistance elastic layer 5b is formed on  
core metal 5a in the transfer roll 5 and the elastic layer 5b is provided  
with value of "hardness/specific gravity" which is 65 or more.  
COPYRIGHT: (C)2005, JPO&NCIPI

L1 ANSWER 2 OF 4 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 267679489 INPADOC ED 20050407 EW 200514 UP 20050722 UW 200529  
TI Ion conductive roller and image forming device using ion conductive  
roller.  
IN NISHIDA SATOSHI  
INS SATOSHI NISHIDA  
INA JP  
PA CANON K.K.  
PAS CANON KK  
PAA JP  
TL English  
DT Patent  
PIT CNA UNEXAMINED APPLIC. OPEN TO PUBLIC INSPECTION  
PI CN 1532642 A 20040929  
AI CN 2004-10030930 A 20040326  
PRAI JP 2004-67444 A 20040310 (EDPR 20041125)  
JP 2003-84975 A 20030326 (EDPR 20041125)

LEVEL 1

EIC 2800

Irina Speckhard

272-2554



08/17/2005

10/807,105

AN 267679489 INPADOC ED 20050407 EW 200514 UP 20050722 UW 200529  
TI Ion conductive roller and image forming device using ion conductive  
roller.  
IN NISHIDA SATOSHI  
INS SATOSHI NISHIDA  
INA JP  
PA CANON K.K.  
PAS CANON KK  
PAA JP  
TL English  
DT Patent  
PIT CNA UNEXAMINED APPLIC. OPEN TO PUBLIC INSPECTION  
PI CN 1532642 A 20040929  
AI CN 2004-10030930 A 20040326  
PRAI JP 2004-67444 A 20040310 (EDPR 20041125)  
JP 2003-84975 A 20030326 (EDPR 20041125)  
ICM (7) G03G015-00  
EPC G03G15/02A1D

L1 ANSWER 3 OF 4 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 250703605 INPADOC ED 20041216 EW 200451 UP 20050722 UW 200529  
TI ROLL MEMBER AND IMAGE FORMING APPARATUS.  
IN NISHIDA SATOSHI  
INS NISHIDA SATOSHI  
PA CANON INC  
PAS CANON KK  
TL English  
DT Patent  
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION  
PI JP 2004310064 A2 20041104  
AI JP 2004-67444 A 20040310  
PRAI JP 2004-67444 A 20040310 (EDPR 20041125)  
JP 2003-84975 A 20030326 (EDPR 20041125)  
OSDW 2004-789555

LEVEL 1

AN 250703605 INPADOC ED 20041216 EW 200451 UP 20050722 UW 200529  
TI ROLL MEMBER AND IMAGE FORMING APPARATUS.  
IN NISHIDA SATOSHI  
INS NISHIDA SATOSHI  
PA CANON INC  
PAS CANON KK  
TL English  
DT Patent  
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION  
PI JP 2004310064 A2 20041104  
AI JP 2004-67444 A 20040310  
PRAI JP 2004-67444 A 20040310 (EDPR 20041125)  
JP 2003-84975 A 20030326 (EDPR 20041125)  
OSDW 2004-789555  
ICM (7) G03G015-00  
ICS (7) G03G015-02; (7) G03G015-16  
EPC G03G15/02A1D

L1 ANSWER 4 OF 4 INPADOC COPYRIGHT 2005 EPO on STN

08/17/2005

10/807,105

LEVEL 1

AN 249264359 INPADOC ED 20041125 EW 200448 UP 20050722 UW 200529  
TI Ion conductive roller and image forming apparatus employing ion  
conductive roller.  
IN NISHIDA SATOSHI  
INS NISHIDA SATOSHI  
INA JP  
PA NISHIDA SATOSHI  
PAS NISHIDA SATOSHI  
PAA JP  
TL English  
DT Patent  
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)  
PI US 2004228659 AA 20041118  
AI US 2004-807105 A 20040324  
PRAI JP 2003-84975 A 20030326 (EDPR 20041125)  
JP 2004-67444 A 20040310 (EDPR 20041125)  
AB An image forming apparatus includes a movable member; a roller contacted  
to the movable member, the roller having an elastic layer contacted to  
the movable member, the elastic layer having an ion electroconductivity  
and having a hardness of not less than 20 and not more than 50, wherein  
the hardness and a density of the elastic layer satisfy  
(hardness/density) $\geq$ 65, wherein the hardness is an Asker-C hardness of a  
material of the elastic layer cut out into a thickness of 4.0 mm under a  
weight of 500 g applied to the material.

LEVEL 1

AN 249264359 INPADOC ED 20041125 EW 200448 UP 20050722 UW 200529  
TI Ion conductive roller and image forming apparatus employing ion  
conductive roller.  
IN NISHIDA SATOSHI  
INS NISHIDA SATOSHI  
INA JP  
PA NISHIDA SATOSHI  
PAS NISHIDA SATOSHI  
PAA JP  
TL English  
DT Patent  
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)  
PI US 2004228659 AA 20041118  
AI US 2004-807105 A 20040324  
PRAI JP 2003-84975 A 20030326 (EDPR 20041125)  
JP 2004-67444 A 20040310 (EDPR 20041125)  
ICM (7) G03G015-02  
ICS (7) G03G015-16  
EPC G03G15/02A1D  
NCL 399176; X399313